

ARG23266 anti-CD178 / Fas Ligand antibody [14C2]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [14C2] recognizes CD178 / Fas Ligand
Tested Reactivity	Hu
Tested Application	ELISA, FACS, IP
Host	Mouse
Clonality	Monoclonal
Clone	14C2
Isotype	IgG1
Target Name	CD178 / Fas Ligand
Species	Human
Conjugation	Un-conjugated
Alternate Names	FASLG; Fas Ligand; APTL1G1; TNFSF6; CD178; FasL; Tumor Necrosis Factor Ligand Superfamily Member 6; Fas Ligand (TNF Superfamily, Member 6); Apoptosis Antigen Ligand; Fas Antigen Ligand; CD95 Ligand; CD95-L; CD95L; APTL; FASL; Tumor Necrosis Factor (Ligand) Superfamily, Member 6; Mutant Tumor Necrosis Factor Family Member 6; Apoptosis (APO-1) Antigen Ligand 1; Tumor Necrosis Factor Ligand 1A; CD178 Antigen; ALPS1B; TNLG1A

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	1:25 - 1:50
	IP	Assay-dependent
Application Note	<p>FACS: Results maybe enhanced using membrane permeabilisation. Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

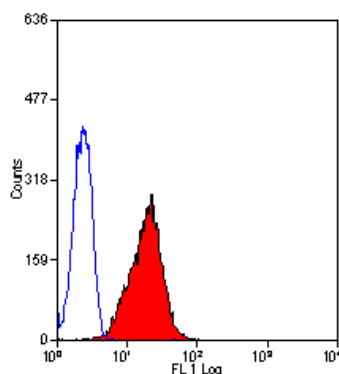
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

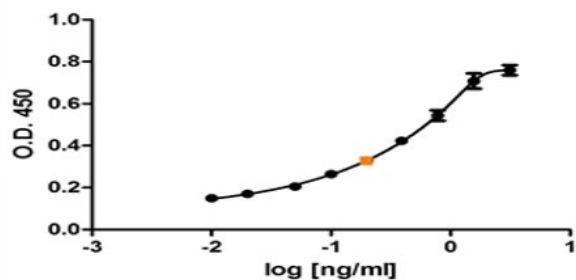
Gene Symbol	FASLG
Gene Full Name	Fas ligand (TNF superfamily, member 6)
Background	<p>This gene is a member of the tumor necrosis factor superfamily. The primary function of the encoded transmembrane protein is the induction of apoptosis triggered by binding to FAS. The FAS/FASLG signaling pathway is essential for immune system regulation, including activation-induced cell death (AICD) of T cells and cytotoxic T lymphocyte induced cell death. It has also been implicated in the progression of several cancers. Defects in this gene may be related to some cases of systemic lupus erythematosus (SLE). Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2014]</p>
Function	<p>Cytokine that binds to TNFRSF6/FAS, a receptor that transduces the apoptotic signal into cells. May be involved in cytotoxic T-cell mediated apoptosis and in T-cell development. TNFRSF6/FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both. Binding to the decoy receptor TNFRSF6B/DcR3 modulates its effects.</p> <p>The FasL intracellular domain (FasL ICD) cytoplasmic form induces gene transcription inhibition. [UniProt]</p>
Calculated Mw	31 kDa
PTM	<p>The soluble form derives from the membrane form by proteolytic processing. The membrane-bound form undergoes two successive intramembrane proteolytic cleavages. The first one is processed by ADAM10 producing an N-terminal fragment, which lacks the receptor-binding extracellular domain. This ADAM10-processed FasL (FasL APL) remnant form is still membrane anchored and further processed by SPPL2A that liberates the FasL intracellular domain (FasL ICD). FasL shedding by ADAM10 is a prerequisite for subsequent intramembrane cleavage by SPPL2A in T-cells.</p> <p>N-glycosylated (PubMed:9228058). Glycosylation enhances apoptotic activity (PubMed:27806260).</p> <p>Phosphorylated by FGR on tyrosine residues; this is required for ubiquitination and subsequent internalization.</p> <p>Monoubiquitinated. [UniProt]</p>

Images



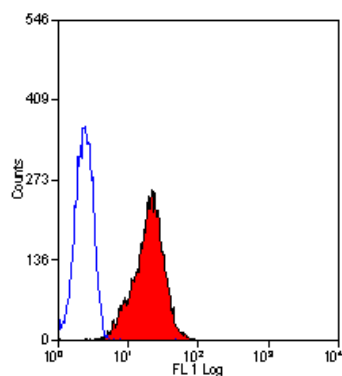
ARG23266 anti-CD178 / Fas Ligand antibody [14C2] FACS image

Flow Cytometry: Permeabilised Jurkat cells stained with ARG23266 anti-CD178 / Fas Ligand antibody [14C2].



ARG23266 anti-CD178 / Fas Ligand antibody [14C2] ELISA image

Sandwich ELISA: ARG23266 anti-CD178 / Fas Ligand antibody [14C2] as a capture reagent and biotinylated Mouse anti Human CD178 as a detection reagent with purified Human CD178 as antigen. Detection is by HRP conjugated Streptavidin and substrate. Microtitre plate is read at O.D. 450 nm on the Bio-Rad iMark Microplate Absorbance Reader (Bio-Rad Catalog 168-1135). Plasma (orange) sample is displayed at 1:2 dilution.



ARG23266 anti-CD178 / Fas Ligand antibody [14C2] FACS image

Flow Cytometry: Permeabilised Jurkat cells stained with ARG23266 anti-CD178 / Fas Ligand antibody [14C2].